



A U.S. Department of Defense Information Analysis Center (IAC) sponsored by the Defense Technical Information Center (DTIC)

Biological Integrated Detection System Bunker and Unit

Sgt. Terry J. Goodman, Public Affairs Office, U.S. Army Chemical School, Ft. McClellan, AL

On April 12, 1996, the Army made a tremendous leap in training chemical soldiers of the 21st century with the opening of the Biological Integrated Detection System (BIDS) Bunker at the U.S. Army Chemical School, Ft. McClellan, AL.

The BIDS Bunker will be used to train chemical soldiers to combat the threat of biological warfare directed against the U.S. and its allies.



(Photo by Sgt. Terry J. Goodman)

From left to right, BG John Doesburg, Joint Program Manager, Biological Defense, Pentagon; COL Richard K. Wiener, DOT, USACMLS; Bruce Jezek, Program Director, Biological Defense Systems, Aberdeen Proving Ground, MD; MG Ralph G. Wooten, Ft. McClellan Commanding General and Commandant USACMLS; and SSgt Mariann Crow, NCOIC, Bio-Defense Branch, USACMLS, cut the ribbon signifying the opening of the BIDS Bunker, April 12, 1996.

A sheltered, biological detection laboratory mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV), the BIDS system is equipped with air sampling detection and identification equipment. Within 30 to 45 minutes, the two soldiers operating the BIDS can presumptively identify a suspected biological agent and warn soldiers in the corps' area of operations to take appropriate action. It consists of seven sampling and detection items, along with navigational devices, weather sensors and communication links.

"During Operation Desert Storm, we didn't have the capabilities to detect biological agents," said MG Ralph G. Wooten. "The only way we would have known if biological agents were being used would have been after soldiers started showing symptoms. We needed a system that would protect our soldiers from biological agents."

According to SSgt Mariann Crow, the noncommissioned officer in charge of the Bio-Defense Branch, USACMLS, BIDS would have been a tremendous asset during the war.

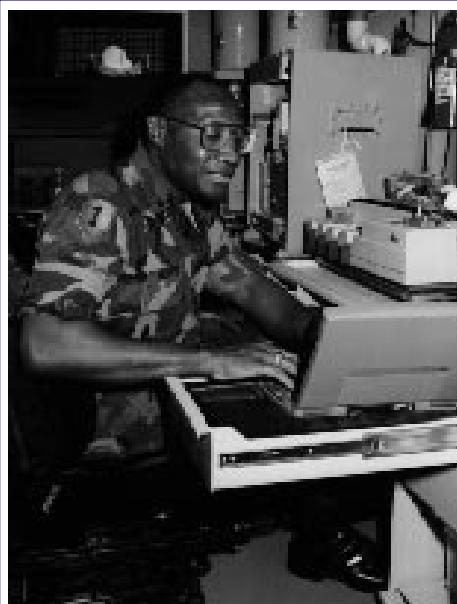
"We had no way to detect biological agents," said Crow, who was the Nuclear Biological and Chemical NCOIC for Company B (medical company), 197th Infantry Brigade during the war. "M8 Alarms were set up, but they only detect nerve agent. With BIDS, the force will definitely be protected better," she said.

The BIDS Bunker, which covers more than 18,000 square feet and cost \$7 million, is housed on an entire floor of USACMLS. It contains two component training labs, a data analysis room, a long-distance radio room and two full-size BIDS simulators.

Originally a reserve unit, the 310th Chemical Company was redesigned September 16, 1996 to reflect its new status as the Army's first and only BIDS company. The unit, a corps-level-or-higher asset, will field 35 BIDS with seven teams per platoon. Each team will consist of four soldiers, the BIDS vehicle and a support vehicle. Two soldiers will analyze air samples in the detection suite, while the other soldiers resupply the team, provide security and move collected samples to the rear.

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(Photo by Sgt. Terry J. Goodman)

MG Wooten examines a computer screen inside a BIDS simulator during a tour of the BIDS Bunker.

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THOUGHTS FROM THE PENTAGON



Dr. Ted Pro Civ, Deputy Assistant to the Secretary of Defense (Chemical and Biological Matters)

This is the sixth of our quarterly updates designed to keep the Chemical and Biological Defense (CBD) community up to date with activities of interest in the Pentagon. Our office is the focal point for the Office of the Secretary of Defense (OSD) staff for three major areas of importance: the DoD Chemical and Biological Defense Program, the DoD Chemical Demilitarization Program, and Chemical Weapons (CW) and Biological Weapons (BW) Arms Control Programs. This article addresses recent legislation and efforts to improve U.S. domestic preparedness in the event of CB terrorist activities.

Senator Sam Nunn (D-GA) has historically been a leading proponent of enhancing our nation's ability to counter a terrorist incident. He has been especially concerned about the lack of coordination among federal, state, and local governments. During hearing testimony, he cited concerns about the absence of training and equipment for local first responders such as police and firefighters. During the past Congressional cycle, several hearings of the Government Affairs Permanent Subcommittee on Investigations, with Nunn, its ranking minority member, cited full-scale field and tabletop exercises to a random terrorist act

that demonstrated disjointed responses, which have the potential to be a prescription for disaster.

Nunn-Lugar-Domenici II:

Based on these concerns, and no doubt energized by the continuing international proliferation of weapons of mass destruction and their potential for use against domestic targets, Senator Nunn, in the fiscal year 1997 Defense Authorization Bill, along with Senators Richard Lugar (R-IN) and Pete Domenici (R-NM), sponsored a bill, informally called Nunn-Lugar-Domenici II. This bill gave the Pentagon \$144M to assist and train federal, state, and local officials responsible for responding to nuclear, chemical, biological, or radiological emergencies. In addition, these funds were specified to be used to improve the U.S.'s ability to interdict weapons of mass destruction in transit and to control them at the source of supply.

Components of Nunn-Lugar-Domenici II were eventually incorporated into an omnibus defense appropriations bill; however, the program was defined with less money and less definition than the original program in the authorization bill. For fiscal year 1997, the appropriations bill provides the Department of Defense \$100M for Nunn-Lugar-Domenici II activities. However, the language in the appropriations bill did not spell out in detail how the Department should allocate the appropriated funds.

More specifically, Appropriations Conference Report, H. Report 104-863, which became Public Law 104-208 on 30 September 1996, set aside \$100M for defense against weapons of mass destruction, including:

- Domestic preparedness
- Interdiction of weapons of mass destruction and related materials
- Control and disposition of weapons of mass destruction and related materials threatening the United States
- Coordination of policy
- Countermeasures against proliferation of weapons of mass destruction

The law emphasizes that domestic preparedness against terrorist threats, especially chemical or biological attacks against U.S. civilian targets, is of paramount importance to the nation. Terrorist organizations have shown the willingness and capability to operate within the continental United States, and a terrorist chemical attack in the Tokyo subway system has already occurred.

Public Law 104-208 also highlights the armed services existing developed capabilities to evaluate chemical/biological threats, respond to such threats, and protect and treat potentially affected personnel. However these capabilities have been developed primarily to protect military personnel in operational situations. Congress believes that much can and should be done to transfer existing military chemical/biological warfare expertise and technology to our civilian "first responders" in charge of protecting the civilian population.

DoD Responsibilities:

As a result of guidance contained within Nunn-Lugar-Domenici II, the DoD will support domestic preparedness readiness in the following areas: (1) advice and assistance of emergency response training; (2) assistance in developing a rapid response team; (3) testing and evaluation of preparedness; (4) assistance in developing and maintaining an inventory of physical equipment/assets; and (5) assistance in procurement of equipment to interdict weapons of mass destruction movement.

To meet the challenge of supporting domestic preparedness programs, the DoD has implemented a management plan which assigns responsibilities to various key DoD agencies. Policy and resource oversight has been assigned to the Assistant Secretary of Defense for Special Operations and Low Intensity Conflict ASD(SO/LIC). Resource oversight for equipment procurement is the responsibility of our office, the Assistant to the Secretary of Defense for Nuclear, Chemical and Biological Defense Programs, Chemical and Biological Matters, ATSD(NCB) (CBM). The DoD Executive Agent is the Secretary of the Army, while the DoD focal point who

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TAT FOCUS

NBC Training Action Plan

CBIAC Technical Area Task 166 was awarded in support of the U.S. Army Chemical School, Fort McClellan, Alabama.



Background:

U.S. Forces face increasing numbers of potential enemies capable of waging chemical and biological warfare. Experience gained during the Gulf War and subsequent studies suggest that U.S. forces may not be adequately prepared to fight and survive in a contaminated environment. The perception of insufficient preparation has resulted in growing Congressional concern. Despite increasing awareness, NBC defense preparedness continues to receive a lower level of emphasis than performance of other more traditional mission tasks. This lower emphasis can be seen in the funding, staffing, monitoring and mission priority given to chemical and biological defense activities.

The U.S. Army Chemical School (USACMLS) is the Executive Agent for joint NBC defense training. As the DoD's NBC Defense Center, the USACMLS is responsible for developing and implementing NBC defense-related training, doctrine and material development. The critical nature of the USACMLS' NBC defense training program has been cited as a vital component of national security.

In order to carry out its mission, the USACMLS must (1) provide high-quality training materials to CINC's and their staffs, major military commands (both active and reserve) and other key government agencies; (2) provide broad-based joint NBC defense doctrine and joint doctrine development support; (3) introduce and upgrade instructional aids and training support materials; and (4) develop, evaluate, and field advanced distributed instructional capabilities for both resident and nonresident instruction.

Objectives of TAT 166:

The CBIAC is working with the USACMLS to help improve NBC defense preparedness and increase awareness of its importance throughout DoD by:

- Providing high-quality instructional materials for joint service application in the form of joint service instructional

programs for operational and strategic level leaders.

- Developing computer-based instruction packages suitable for resident and nonresident training of senior leaders in NBC defense and Weapons of Mass Destruction (WMD).
- Developing exportable training support packages for the training of senior leaders at Senior Service Colleges and other training/educational institutions.

Specifics include:

Assisting Strategic Leaders and Staff by:

- Producing instructional packages for CINC's, Service, and Corps commanders regarding the implications of WMD proliferation and the potential effect of such weapons on U.S. interests.
- Delivering these packages in a multi-media presentation format to senior DOD leaders and their staffs.
- Providing recommended CINC NBC Defense Readiness Guidance for each region.
- Developing and providing leave-behind information packages to assist senior leaders and their staffs in the planning and decision-making process.

Upgrading Joint Senior Leader Courses by:

- Developing an operational/strategic level course for field grade U.S. and allied officers.
- Developing a strategic-level course for general officers.
- Developing and providing take-away WMD information packages to assist senior leaders and their staff in the planning and decision-making process.

Improving Senior Service Training:

- Upgrading curriculum at senior service school level for the services in order to include WMD/NBC defense.
- Upgrading curriculum at command and staff level.

The principle investigator for this project is Mr. Jim Coverstone, assisted by Dr. Mike Michelson and Mr. Rick Mettke.

For further information about Technical Area Tasks, contact Mr. Francis T. Crimmins, Director, CBIAC.

Commercial Technology Insertion Program (CTIP)



As part of DoD's dual use technology strategy, the military is seeking commercial technologies to reduce costs, shorten acquisition cycle times and obtain technologically advanced defense equipment. The CTIP provides funding to facilitate the insertion of commercial technology into defense systems by overcoming barriers such as: qualification, adaptation of commercial technologies to military applications, or modifications to military systems. Commercial technologies are defined as those technologies that are in widespread use in commercial products or are expected to find wide spread acceptance in the near future. Commercial technologies best suited to the CTIP are those that will positively impact life cycle costs, increase the technological superiority of defense systems, have widespread service applications, and reasonable technical feasibility.

The Edgewood Enterprise is interested in participating in the CTIP and looking to its industrial partners for technologies which address CB defense issues and meet the CTIP criteria. It expects to receive a call for CTIP nominations in the Feb-Mar 1997 time frame. If you know of commercial technologies which may be applicable, please contact Mr. Ronald Hinkle of the Edgewood Research, Development and Engineering Center (ERDEC) Technical Industrial Liaison Office at (410) 671-2031.

CB NEWS EXCERPTS

In order for the CBIAC to inform its readers of recent Chemical/Biological Defense activity throughout the United States and around the world, we have compiled a list of related CB news articles and have taken excerpts from them to create brief overviews. Please note that the CBIAC does not provide secondary distribution of articles. We can, however, provide direction on where to find an article of interest



Ember, Lois. Stress May Be Cause of Gulf War Syndrome Ailments, Chemical and Engineering News, 25 November 1996. Wartime stress may play a significant role in the ailments experienced by Gulf War veterans. Stress apparently can cause biochemical changes in the immune and circulatory systems which could account for the range of problems seen in Gulf War veterans. The special panel, Presidential Advisory Committee on Gulf War Veterans' Illnesses and the CIA have asked IDA (Institute for Defense Analyses) and NAS (National Academy of Sciences) to assist with expert investigations on modeling and health issues, respectively. The Pentagon has expanded its Persian Gulf Illnesses Investigative Team from 12 to 110 people, headed by Dr. Bernard Rostker.

Worsnip, Patrick. <http://www.prnewswire.com>, 8 November 1996. On 31 October 1996, Hungary became the 65th ratifying nation for the CWC, putting the entry into force date to 29 April 1997. The United States and Russia have been the only countries to officially declare 30,000 and 40,000 tons of stored chemical weapons and agents, respectively. Any nations not ratifying before the 29 April deadline will be excluded from implementation and administration decisions made by the Hague-based organization designed to oversee the CWC.

Cult Member Leads Japan Police to Nerve Gas, <http://www.cnn.com>, 12 December 1996. Hayashi, a member of the Aum Shinrikyo doomsday cult, led police to

1.4 ounces of liquid VX sealed in a glass bottle. The cult had allegedly used Sarin, another nerve agent, to kill 12 and sicken 6,000 more people in the subway attack in March 1995.

Brown, David. The Gulf between 'Syndrome' and Poison Gas, <http://www.washingtonpost.com>, 2 January 1997. The traditional symptoms of low dose exposure as reported by medical scientists familiar with chemical agent testing and manufacture are compared to the symptoms reported by Persian Gulf veterans. The article discusses the possibility and probability of soldier exposures, animal research in the field, pretreatment factors, and historical situations which lend similarities. The article also includes other related websites on Gulf War Illnesses and can be directly accessed on the Internet at <http://www.washingtonpost.com/wp-srv/national/longterm/gulfwar/front.htm>.

Cooper, Pat. Microbots Will Help U.S. Combat Bio-Chem Weapons, Defense News, 11-17 November 1996. The Director of Intelligent Systems and the Robotics Center at Sandia National Laboratories (SNL), Patrick Eiker, envisions microbots disguised as, for example, cockroaches, that could be used to help the U.S. military or intelligence agencies locate and destroy nuclear, biological and chemical weapons. Researchers maintain that a near term goal is the creation of a Chemical Lab on a Chip that can be transported on the microbots. The manager of the sensor programs department at SNL, Marion Scott, and Steven Martin, manager of microsensors research at Sandia, explained the analytical process and sensor design for the Chem Lab on a Chip. Schematic drawings and additional details are included in the article.

Enatsky, Stanley A. Protecting the Fleet: Tackling the Chemical/Biological Threat, Surface Warfare, November/December 1996. The emphasis on littoral warfare and the increase in the number of countries that have developed Chemical and Biological (CB) Weapons of Mass Destruction (WMD), are cited among the reasons that the Navy has addressed the need to be prepared to combat these weapons. The author has provided an overview of events and changes to legislation that have led to an organized approach to CB defense for all the services, and profiles the strategy and equipment used by the Navy to establish its

CB defensive posture. Protective technology and efforts were divided into four categories: contamination avoidance, collective protection, individual protection and decontamination. Photographs and schematic drawings detail strategies and technologies. Resources for additional information and points of contact are listed at the end of the article.

Highlight Your Chemical or Biological Defense Program in the CBIAC Newsletter!



The CBIAC Newsletter is a forum for the latest program updates, policy changes, and general Chemical and Biological Defense (CBD) information of interest to the CBD community. We welcome unsolicited articles for inclusion in the CBIAC Newsletter. Articles should be approximately 150-200 words in length. Graphics, photographs and artwork greatly enhance the story presentation. Deadlines for submissions for each quarterly issue are listed below. Advance coordination is recommended, especially if you are interested in having your article appear in a particular issue.

Winter issue: December 1st
Spring issue: March 1st
Summer issue: June 1st
Fall issue: October 1st

Articles provided for the CBIAC Newsletter must be approved for public release prior to submission and are subject to the review and approval requirements established by our sponsor. The CBIAC reserves the right to reject submissions. For further information, contact Mary Jo Waters, Newsletter Editor.

ONGOING AND RECENT ACTIVITIES

Current Awareness

• The CBIAC attended, displayed and briefed at The DTIC Annual Users Meeting and Training Conference, held November 4-7, 1996, at the Double Tree Hotel in Arlington, VA. Updates to the CBIAC homepage, the CBIAC Bibliographic Database and the latest CBIAC basic products were featured.

• The CBIAC products and services were on display at The 1996 Scientific Conference and Biological Defense Research, held November 19-22, 1996, at the Edgewood Conference Center, located at Aberdeen Proving Ground, MD. Starter Kits, CBIAC Newsletters, and basic products were showcased.

• February 24-26, 1997, the CBIAC will attend, brief, and display at the U.S. Air Force Civil Engineer's Prime Base Engineer Emergency Force Readiness Symposium, to be held at the HYATT Regency in Albuquerque, NM. All aspects of the CBIAC products and services will be presented.

• The CBIAC will also be participating in the DoD CB Missions Area APBI to be held March 25-26, 1997, at the Johns Hopkins University Applied Physics Lab, in Laurel, MD.

Information Acquisition and Processing

• Documents in the area of CW and BW Treaty Technologies and Analytical Methods were added to the CBIAC collection during first quarter, FY97.

Inquiry and Referral Services

• Last quarter, the CBIAC received 160 inquiries. Thirteen percent of the inquiries were for information on NBC Survivability while another 13% were for Chemical and Physical Properties data. Recently, requests for guidelines and points of contact for CB emergency response efforts have increased.

Products

• The CBIAC is introducing the Physiological and Psychological Effects of the Nuclear, Biological, and Chemical

Environment and Sustained Operations on Systems in Combat (P²NBC²) Database, and new Decontamination Bibliographies. See page 13 and the back cover for details.

Technical Area Tasks (TATs)

Since the last newsletter, three new tasks were awarded, effort was added to four ongoing tasks and six tasks have been completed. As of 31 September 1996, 106 TATs have been awarded and work has been added to 121 tasks. Total value of TATs awarded is over 36.6 million dollars.

Do not hesitate to contact Judith Shetterly, CBIAC Administrator, if you would like further information on a CBIAC TAT. In order for us to help you most efficiently, please furnish the Government Contract Number you are working on (if any), the reason(s) you want the information, and your company address and phone number. We need this information in order to obtain release of information from the TAT sponsor.

Completed:

Task	Description/Sponsor
22	Identify and Technically Evaluate Chemical Detection Monitoring Equipment Capable of Sensing Low Level Chemical Agents in Contained Spaces USA/ERDEC
81	Develop Methods for the Analysis of Chemical Agent Samples in Support of the AMC Treaty Laboratory USA/ERDEC

104	Evaluate the USAF Aircrew Eye/Respiratory Protective (AERP) System USAF/HSC
112	Identify and Compile Results of Past NBC Field Studies Regarding Operational Degradation in a CB Battlefield Environment; Identify Datagaps National Defense Univ.
121	Develop and Validate Protective Clothing Standardized Guidelines USN/NCTR
148	Evaluate, Analyze and Assess Requirements, Technologies, Systems, Testing Programs, and Documents Associated with the USAF IPE Program USAF/HSC

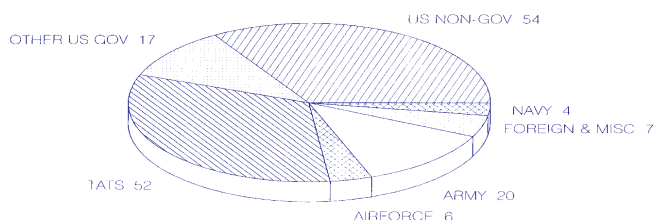
Underway:

Task	Description/Sponsor
206	Provide Technical Support to and Evaluation of Naval and Joint Service CB-D Programs USN/NAVSEA
211	Provide Technical Support to the USA Project Manager for NBC Defense Systems ACADA Program USA/CBDCOM
221	Analyze Inert Surfaces for Possible Microbiological Contamination USA/TECH ESCORT

See "Ongoing and Recent Activities"

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INQUIRY SOURCES FIRST QUARTER, FY97



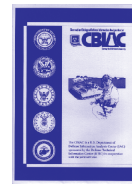
As of 31 DEC 1996

CALENDAR OF EVENTS

The CBIAC highlights conferences, symposia, meetings, exhibitions and workshops of interest to the CB community in every issue of our newsletter. We invite CBIAC users to submit information on various events to the CBIAC, Attention: Mary Jo Waters or via Internet: watersm@battelle.org. Due to space limitations, the CBIAC will accept submissions on a first-come, first-served basis and reserves the right to reject submissions.

Date/Name/Location	Contact(s)	Date/Name/Location	Contact(s)
Feb 24-26, 1997 Prime Base Engineer Emergency Force (BEEF) Readiness Symposium Hyatt Regency Albuquerque, NM	Department of the Air Force Headquarters Human Systems Ctr. (AFMC) Attn: MSgt Gregory Furnish Brooks Air Force Base, TX Tel: (210) 536-4578 Fax: (210) 536-4533	May 5-8, 1997 Global Demilitarization Symposium & Exhibition John Ascuaga's Nugget Reno, NV	American Defense Preparedness Association (ADPA) Attn: Terri Colvin 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: tcolvin@adpa.org
Mar 11-13, 1997 International NBC Defence Symposium Cranfield University Shrivenham, UK	Cranfield University Royal Military College of Science School of Engineering and Applied Science Attn: Col (Retd) R. G. Lee Shrivenham, Swindon Wiltshire, United Kingdom SN6 8LA Tel: 44 (0) 1793 785648 Fax: 44 (0) 1793 783192	Jun 2-5, 1997 Defense Special Weapons Agency's (DSWA) Annual International Conference on Controlling Arms Newington, VA 22122-8500 Waterside Marriott Hotel and Conference Center Norfolk, VA	Center for Verification Research Attn: Richard Soll or Christopher Parent 8500 Cinder Bed Road P.O. Box 8500 Tel: (703)-541-3581 or (703)-550-0430 Fax: (703)-550-1986
Mar 18-20, 1997 Southeast C'I Conference and Exposition Tampa Convention Center Tampa, FL	J. Spargo and Associates 4400 Fiar Lakes Cout Fairfax, VA 22033 Tel: (703) 631-6200 Fax: (703) 818-9177	Jun 9-12, 1997 Security Technology Virginia Beach, VA	American Defense Preparedness Association (ADPA) Attn: Fred Raines 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: fraines@adpa.org
Mar 24-27, 1997 TARDEC Ground Vehicle Survivability Symposium Naval Postgraduate School Monterey, CA	American Defense Preparedness Association (ADPA) Attn: Ira Click 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: iclick@adpa.org	Jun 9-13, 1997 Productive Reuse of Former Military Sites: Environmental and Economic Aspects of Demilitarization: The 4 th International Technical-Practical Conference on Demilitarization Belarus Academy of Sciences Minsk, Republic of Belarus	Arthur D. Little, Inc. Attn: Janet Smith Acorn Park Cambridge, MA 02140 Tel: 617-498-5477 Fax: 617-498-7019 E-Mail: Smith.Janet@ADLittle.com
Mar 25-26, 1997 Chemical Biological Mission Area APBI Johns Hopkins University Applied Physics Laboratory Laurel, MD	American Defense Preparedness Association (ADPA) Attn: Fred Raines 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: fraines@adpa.org	Jun 10-12, 1997 Symposium on NBC Defence '97 Hotel Rantasipi Sveitsi Hyvinkää, Finland	Defence Forces Research Centre (DFRC) Attn: Prof. Erkki Kantolahti P.O. Box 5 FIN-34111 LAKIALA FINLAND Tel: 358 3 284 3211 Fax: 358 3 284 3333 URL: http://www.pvtk.mil.fi and click on "Ajankohtaista"
Apr 7-11, 1997 23 rd Environmental Symposium and Exhibitions Ernest N. Morial Convention Ctr. New Orleans, LA	American Defense Preparedness Association (ADPA) Attn: Terri Colvin 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: tcolvin@adpa.org	Jun 15-20, 1997 Mycotoxins and Phytotoxins New England College Henniker, NH	Gordon Research Center University of Rhode Island P.O. Box 984 West Kingston, RI 02892-0984 Tel: 401-783-4011 Fax: 401-783-7644 E-Mail: GRC@GRCMAIL.GRC.URI.EDU URL: http://www.grc.uri.edu
Apr 22-24, 1997 ITEC '97 International Training Equipment Conference Lausanne, Switzerland	American Defense Preparedness Association (ADPA) Attn: Nelson Jackson 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885 E-Mail: njackson.adpa.org		

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Please help us to improve our products and services by completing this survey and returning it to the CBIAC via mail or fax. To show our appreciation, we will send you our updated CBIAC Starter Kit, which includes our latest Basic Products Catalog. ✍

1. How did you become aware of the CBIAC's products and services? (Check all that apply)

- ☐ Advertisement ☐ Briefing ☐ CBIAC Homepage ☐ CBIAC Newsletter ☐ Co-worker ☐ Database Search
☐ Display ☐ Referral from another IAC ☐ Starter Kit ☐ Other

2. Please rate the currently available CBIAC products and services using the following scale:

(5=Excellent, 4=Very Good, 3=Satisfactory, 2=Fair, 1=Poor)

Bibliographies	5 4 3 2 1	Databooks	5 4 3 2 1
Critical Reviews/		Directories	5 4 3 2 1
Technical Assessments	5 4 3 2 1	Homepage	5 4 3 2 1
Databases:		Inquiry & Referral Services	5 4 3 2 1
CBIAC BD	5 4 3 2 1	Newsletters	5 4 3 2 1
CDMD	5 4 3 2 1	Proceedings	5 4 3 2 1
P ² NBC ²	5 4 3 2 1	Technical Area Tasks	5 4 3 2 1
		Training Aids	5 4 3 2 1

3. What topics do you recommend for future CBIAC products in each of the following categories?

Bibliographies _____
 Critical Reviews/Technical Assessments _____
 Databases _____
 Directories _____
 Handbooks _____
 Databooks _____
 Proceedings _____
 Training Aids _____

4. The CBIAC offers two databases that may be accessed remotely by qualified users: the CBIAC Bibliographic Database (BD) and the Chemical Defense Materials Database (CDMD). If you have accessed one or both databases in the past year, please provide feedback on the ease of use, quality of content, and usefulness of the database(s) to your program, agency, or project.

CBIAC BD: _____

CDMD: _____

5. If you have used the CBIAC Inquiry and Referral Services, please let us know if there are ways that this service can be improved. If you have not used this CBIAC service, skip this question.

6. If you have sponsored a Technical Area Task (TAT) through the CBIAC, please let us know if you were satisfied or dissatisfied with the results and the reason for your response. If you have not funded a TAT, skip this question.

7. The CBIAC homepage is accessible at <http://www.cbiac.apgea.army.mil>. What improvements would you recommend for the CBIAC homepage? _____

8. Please use the space below to provide general comments.

9. Please provide the following information.

Full Name: _____ Prefix: _____ Title: _____
(Last, First, Middle, Initial) (Mr., Ms. Dr., LTC, etc.) (Commander, Headquarters, Director, etc.)

Code/Attn: _____ Organization: _____
(SMCCR-CCR, ATD/FXX, etc.) (Agency, Command, U.S. Army, USAF, Company Name, etc.)

Address: _____

City: _____ State: _____ Zip: _____ Country: _____


Telephone: () _____ Fax: () _____ E-Mail Address: _____

Web Site: _____

(Fold Here)

Postage

The CBIAC
P.O. Box 196
Gunpowder Branch
APG, MD 21010-0196

Date/Name/Location	Contact(s)	Date/Name/Location	Contact(s)
Jun 15-20, 1997 Viruses and Cells Tilton School Tilton, NH	Gordon Research Center University of Rhode Island P.O. Box 984 West Kingston, RI 02892-0984 Tel: 401-783-4011 Fax: 401-783-7644 E-Mail: GRC@GRCMAIL.GRC. URLEDU URL: http://www.grc.uri.edu	Oct 13-15 Association of the United States Army (AUSA) Annual Meeting and Exhibition Washington, D.C.	AUSA Attn: Diane Fitzgerald 2425 Wilson Blvd Arlington, VA 22201 Tel: (703) 841-4300, Ext. 664 Fax: (703) 243-2589
Jun 18-20, 1997 64 th Military Operations Research Society Symposium Naval Postgraduate School Fort Leavenworth, KS	Military Operations Research Society Attn: Kee-Lafreniere 101 S. Whiting Street, Ste. 202 Alexandria, VA 22304 Tel: (703) 751-7290	Oct 21-23, 1997 INFOTECH '97 Conference and Exhibition Dayton Convention Center Dayton, OH	J. Spargo and Associates 4400 Fair Lakes Court Fairfax, VA 22033 Tel: (703) 631-6200 Fax: (703) 818-9177
Jun 25-26, 1997 Worldwide Chemical Conference XV Ft. McClellan, AL	American Defense Preparedness Association (ADPA) 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885	Nov 3-6, 1997 DTIC Annual Users Meeting and Training conference Double Tree Hotel Arlington, VA	Defense Technical Information Center (DTIC) Attn: Ms. Julia Foscue 8725 Kingman Road, Suite 0944 Fort Belvoir, VA 22060-6218 Tel: (703) 767-8236 E-Mail: jfoscue@dtic.mil URL: http://www.dtic.mil
Jun 25-27, 1997 20 th Army Science Conference Norfolk Convention Center Norfolk, VA	Department of the Army Attn: SARD-TR/Catherine Kominos 103 Army Pentagon Washington, DC 20310 Tel: (703) 697-3558 Fax: (703) 695-3600	Nov 18-21, 1997 Scientific Conference on Chemical and Biological Defense Research CBDCOM Conference Center Aberdeen Proving Ground, MD	US Army Edgewood Research, Development and Engineering Center Attn: Dottie Berg APG, MD 21010-5423 Tel: (410) 671-4883/4144 DSN: 584-4883/4144 Fax: (410) 671-2649
Aug 4-7, 1997 Joint Service Pollution Prevention Henry B. Gonzalez Conv. Ctr. San Antonio, TX	American Defense Preparedness Association (ADPA) 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885	1998 MEETINGS	
Aug 24-27, 1997 2 nd International Workshop on BC-Detection Ystad Saltsjöbad Hotel Ystad, Sweden	FOA NBC Defence Attn: Göran Olofsson or Gerd Karlsson S-901 82 UMEA Sweden Tel: 46 90 106 638 (G.O.) or 46 90 106 727 (G.K.) Fax: 46 90 106 803 E-Mail: olofsson@ume.foa.se or gkarlsson@ume.foa.se		
Sep 15-18, 1997 Pollution Prevention Fair Aberdeen PG, MD	American Defense Preparedness Association (ADPA) 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885	May 10-15, 1998 The Sixth International Symposium on Protection Against Chemical and Biological Warfare Agents Stockholm City Conference Center Stockholm, Sweden	CBW Protection Symposium FOA NBC Defence S-901 82 UMEA Sweden <u>For registration:</u> Tel: 46 90 106 602 E-Mail: molofsson@ume.foa.se <u>For scientific program:</u> Tel: 46 90 106 773 Fax: 46 90 106801 E-Mail: persson@ume.foa.se URL: http://www.opcw.nl/cbsymp/
Oct 7-9, 1997 Combat Survivability Annual Symposium Washington, DC	American Defense Preparedness Association (ADPA) 2101 Wilson Blvd., Suite 400 Arlington, VA 22201-3061 Tel: (703) 522-1820 Fax: (703) 522-1885	 <p>Wanted: Conference Announcements</p> <p>Do you have an upcoming conference, meeting, symposium or workshop of interest to the Chemical and Biological Defense community?</p> <p>If so, please send the pertinent information for inclusion in our Calendar of Events to Mary Jo Waters. Due to space limitations, announcements will be accepted on a first-come, first-served basis. The CBIAC reserves the right to reject submissions.</p>	

Marye Jo Timmons Retires



Marye Jo Timmons retired from her position as Program Analyst at the Defense Technical Information Center's DoD IAC Program Office on January 3, 1997. She has been the Program Analyst for the CBIAC for approximately six years. She cites the award of the CBIAC contract after extensive recompetition, and the initiation of the CBIAC steering committee to provide guidance to the CBIAC as some of her most rewarding accomplishments on the job.

Marye Jo began her Government career when she accepted a full time position as a procurement clerk in the Defense ADP Contracting Office. She received a promotion to an upward mobility position as a Program Analyst for the IAC Program Office in 1989. She has since worked as the Program Analyst for the four materials IAC contracts operated by the Purdue Research Foundation at Purdue University, as well as the Nondestructive Testing Information Analysis Center (NTIAC) at Texas Research Institute (TRI) in Austin, Texas, and the CBIAC.

As a DTIC IAC Program Analyst, Marye Jo was responsible for oversight of these assigned DoD Information Analysis Centers, their service to customers, contracts and funding, liaison with the IACs Technical Monitors and DoD Steering Committee Members, the contract procurement process, and reporting the results and benefits of IAC service as a return on DoD investment. She also set-up major DoD IAC conferences, represented the Program Manager in various Defense forums supported by her IACs, and was consistently the key person in the team process of coordinating all the efforts that go into delivering IAC service to our customers.

Marye Jo established a high standard for those that follow in her footsteps. She will be well remembered by her teammates and credited with a significant role in the establishment of the DoDs Advanced Materials and Processes Technology Information Analysis Center (AMPTIAC).

Both Marye Jo and her husband are natives of Fairfax County, VA, and have been married for 30 years. She proudly notes that their daughter has an MBA from Clemson and their son is a CPA.

Her plans for the near future include clearing 30 years of "accumulated junk", planning her daughter's wedding, and finally finding the time to indulge her creative talents for quilting and cross-stitching. Long-range plans include seeking a warm place to live.

The CBIAC and DTIC wish her the best of luck and health in her retirement adventures!

"Biological Integrated Detection System Bunker and Unit"

Continued from page 1

The active duty platoon, the 20th Chemical Detachment, is the fifth platoon, and would fall under 310th command only in wartime operations. In peacetime, the detachment is attached to the 84th Chemical Battalion, USACMLS. Before the activation of the 310th, the BIDS mission fell into the capable hands of the 11th Chemical Co., 84th Chemical Battalion.



(Photo by Sgt. Terry J. Goodman)

The BIDS unit has the capability to detect and identify biological agents on the battlefield.

Soldiers of the 11th Chemical Co. have been a mainstay of the unit's mission since October 1994 when BIDS testing began at Dugway Proving Ground, UT. The 11th Chemical Co. was an integral part of the BIDS system, which is being used today.

In October 1994, during the first user test, the platoon developed doctrinal procedures. At Dugway, one year later, the 28 soldiers who comprise the BIDS platoon, refined those procedures and designed the layout of the equipment inside the vehicle.

The 11th Chemical Co. also provided feedback on how the technical manuals will be written for the BIDS operators, assisted in editing doctrinal manuals on how BIDS will be deployed, and developed platoon standard operating procedures for use on the battlefield.

"Being able to field this equipment in less than four years is a great success story for the Armed Forces," said MG Wooten. "BIDS will prove to be a vital asset on the battlefields of the 21st Century."

SELECTED INQUIRY RESPONSES

This section of the newsletter contains recent inquiries and responses on subjects we feel are of interest to our users. The information presented has been edited to conserve space. If you would like further detail, please contact Steven Jones (jones@battelle.org) at the CBIAC and provide the reference number if available.

Q: Where can I obtain copies of the documents, Proliferation: Threat and Response and Chemical and Biological Terrorism: The Threat According to the Open Literature, mentioned in the "Recent Acquisitions" column of the Summer, 1996 issue of the CBIAC Newsletter?

A: The ordering information for each of the reports is listed below:

- Proliferation: Threat and Response
ISBN: 0-16-04859
U.S. Government Printing Office
Superintendent of Documents
Washington, DC 20402

or

National Technical Information
Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
Tel: 703-487-4650
Fax: 703-321-8547

- Chemical and Biological Terrorism: The Threat According to the Open Literature
Canadian Security and Intelligence Service (CSIS)
P.O. Box 9732
Postal Station T
Ottawa, Ontario K1G 4G4
Canada
Tel: 1-800-267-7685

Q: Where can I find information on demilitarization processes?

A: The CBIAC has several standard bibliographies on demilitarization efforts. One bibliography is a compilation of multiple database search results for all aspects of demilitarization, while the others focus on specific demilitarization technologies. The standard bibliographies are listed below and can be purchased from the CBIAC by contacting Judith M. Shetterly, CBIAC Administrator. The distribution limitation for all bibliographies is U.S. Government Agencies and their Contractors; Export-Controlled. Additional information on Demilitarization can be obtained through the CBIAC's Online Directory of CB Sites Accessible on the World Wide Web (WWW), accessible through the CBIAC homepage button bar or directly at <http://www.cbiac.apgea.army.mil/directory/>.

- BIB-96-09 Chemical Demilitarization
\$40.00
- BIB-96-10 Bioremediation as a Demilitarization Technology
\$ 5.00
- BIB-96-11 Alternative Technologies for Demilitarization
\$15.00
- BIB-96-12 Incineration as a Demilitarization Technology
\$15.00
- BIB-96-13 Neutralization as a Demilitarization Technology
\$15.00
- BIB-96-14 Cryofracture as a Demilitarization Technology
\$ 5.00

CONTRACT AWARDS

1. Overall Management, Engineering, Procurement and Logistical Support Services for Johnston Atoll Chemical Agent Disposal System (JACADS).
Raytheon Engineers & Constructors/Raytheon Demilitarization Company
\$500,000,000. 15 October 1996
By U.S. Army
2. Filter Element.
Pall Aeropower Corp.
6301 49th Street North
Pinellis Park, FL 34665-5798
\$28,848. 8 November 1996
By Defense Supply Center
3. Feasibility Assessment of Biosensors.
Arete Associates
P. O. Box 6024
Sherman Oaks, CA 91413
\$1,529,035. 13 September 1996
By Office of Naval Research
4. Topical Skin Protectant (TSP) Manufacturing Development.
McKesson Bioservices
Montgomery Executive Center,
Suite 322
6 Montgomery Village Avenue,
Gaithersburg, MD 20879
\$1,686,094. 25 September 1996
By U. S. Army Medical Research Acquisition Activity
5. Vaccine Production Facility.
Orphan Biologics Institute
18 Tremont Street, Suite 700
Boston, MA 02108
\$7,674,905. 30 September 1996
By National Institutes of Health
6. Chemical Agent Monitors (CAMs).
Graseby Dynamics
Bushey, Hertfordshire, UK
\$34,400,000. October 1996
By Swiss Defence Procurement Agency
7. Constuction, Equipment Installation, Systemization, Operation and Closure of Umatilla Chemical Agent Disposal Facility.
Raytheon Engineers & Constructors/ Raytheon Demilitarization Company
\$567,000,000 10 February 1997

"Thoughts from the Pentagon"

Continued from Page 2

works for the Secretary of the Army is the Director of Military Support (DOMS).

Implementation Plan:

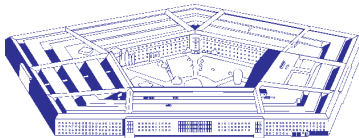
The plan for implementation calls for an integrated approach concentrating on four major areas; (1) responder training; (2) expert assistance; (3) exercises and preparedness testing; and (4) coordination of C/B responses.

The training mission will train first responders in selected major metropolitan areas (firefighters, police, emergency medical personnel, hospitals, and 911 operators) in medical treatment, chemical/biological detection, monitoring, protection, and decontamination. The expert assistance mission will provide assistance from DoD chemical/biological experts to conduct vulnerability assessments, evaluate equipment, and develop emergency plans and "hotlines". The exercise and preparedness testing mission will conduct exercises and tests to improve federal/state and local emergency response to CB threats. To support the coordination of C/B emergency responses, the Department has designated the Secretary of the Army as Executive Agent to coordinate DoD assistance and maintain domestic CB terrorism rapid response teams for identification, detection, neutralization, containment, dismantlement, and disposal.

The DoD response to a future incident will be coordinated within a Federal response planning framework. This framework will leverage the capabilities of all Federal response plan signatories and other responsible agencies. The DOMS will be the lead DoD representative on the core Federal group which will provide requirements and priorities to the DoD. It is anticipated that design and execution for DoD components of approved programs will be carried out by various agencies with existing expertise within these areas. These include the US Army's Chemical-Biological Defense Command, Medical Research and Materiel Command, and Chemical School, the USMC Chemical-Biological Incident Response Force, and the Defense Special Weapons Agency.

Conclusion:

DoD has organized a management structure, is currently establishing and prioritizing requirements, and is in the process of allocating appropriated resources to responsible executing agencies.



"Ongoing and Recent Activities"

Continued from Page 5

CBIAC STATISTICS

Total CBIAC documents accessible through DTIC DROLS: 7,291

Shared¹: 3,891 Unique²: 3,400

Total document citations available through the CBIAC BD: 47,593

Total documents on site: 26,161

Total inquiries received during First Quarter, FY97: 160

Technical: 46
Informational: 43
Bibliographic: 68
Referral: 3

Total TATs awarded since contract initiation 106:

Completed: 30
Ongoing: 76

Total newsletter subscribers: 2,333

- 1 Existing DTIC records appended with CBIAC terms
- 2 New DTIC records created by the CBIAC

Winter 1997



Chemical and Biological Defense Information Analysis Center



The CBIAC Newsletter is a quarterly publication of the Chemical Warfare/Chemical and Biological Defense Information Analysis Center (CBIAC). The CBIAC is a Department of Defense (DoD) Information Analysis Center (IAC), administratively managed by the Defense Technical Information Center (DTIC) under the DoD IAC Program Office.

Government agencies and private industry under contract to the Department of Defense can contact the CBIAC for informational products and services. The CBIAC serves as the center for the acquisition, compilation, analysis and dissemination of information relevant to chemical warfare and chemical and biological defense technology.

The CBIAC is located in Building E3330, Aberdeen Proving Ground - Edgewood Area, Maryland 21010. For further assistance or information, visit or contact the CBIAC Monday through Friday from 8:00 a.m. to 4:00 p.m., EST:

Mailing address: CBIAC
P.O. Box 196
Gunpowder Branch, APG,
MD 21010-0196

Tel: 410-676-9030 Fax: 410-676-9703
E-Mail: cbiac@battelle.org
URL: <http://www.cbic.ac.apgea.army.mil>

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Judith M. Shetterly, CBIAC Administrator;
Phone: 612-6412 E-Mail: shetterj@battelle.org

The Contracting Officer's Technical Representative for the CBIAC is Mr. Joseph Williams. He can be reached through his E-Mail address at jdwillia@cbdcom.army.mil or at the following address:

Technical Director, ERDEC
Attn: SCBRD-RTA (Mr. Joseph Williams)
APG-EA, MD 21010-5423

New Decontamination Bibliographies

The CBIAC has just released 10 new bibliographies on the decontamination efficiency of various decontamination processes against chemical and biological agents. Please note that the distribution limitation for all decontamination bibliographies is U.S. Government Agencies and their Contractors; Export-Controlled. To order, contact Judith M. Shetterly, CBIAC Administrator. Please allow 4-6 weeks for delivery.

BIB-97-16	Decontamination Efficiency of Bleach/Polar Organic Solvent/Surfactant/Water Against Chemical and Biological Agents	\$15.00
BIB-97-17	Decontamination Efficiency of Fichlor Based Decontamination System Against Chemical and Biological Agents	\$10.00
BIB-97-18	Decontamination Efficiency of Decontaminating Solution 2 and Decontaminating Solution 2 Program Against Chemical and Biological Agents	\$10.00
BIB-97-19	Decontamination Efficiency of Monoethanolamine Against Chemical and Biological Agents	\$ 5.00
BIB-97-20	Decontamination Efficiency of Monoethanolamine and Sodium Hydroxide Against Chemical and Biological Agents	\$10.00
BIB-97-21	Decontamination Efficiency of Multipurpose Chemical-Biological Decontaminant (MCBD) Against Chemical and Biological Agents	\$10.00
BIB-97-22	Decontamination Efficiency of Pyrrolidone and Alkoxides Against Chemical and Biological Agents	\$ 5.00
BIB-97-23	Decontamination Efficiency of Sodium Hypochlorite and Menger's Microemulsion Against Chemical and Biological Agents	\$10.00
BIB-97-24	Decontamination Efficiency of Sorbent Decontaminants (Including Fuller's Earth) Against Chemical and Biological Agents	\$10.00
BIB-97-25	Decontamination Efficiency of Supertropical Bleach Against Chemical and Biological Agents	\$10.00
BIB-97-25S	Complete Set of Bibliographies 97-16 Through 97-25	\$75.00

Newsletter Mailing List Update Form

The CBIAC Newsletter is available through the CBIAC homepage at <http://www.cbiac.apgea.army.mil/newsletter/>. If you would like to receive a hardcopy of the CBIAC Newsletter, delete your name from our mailing list, or modify your mailing address, please complete this form and submit it to the CBIAC, Attention Judith M. Shetterly, via mail or fax. If you are deleting or modifying your address, please attach an old mailing label in the space shown below. ✍

Check the box which applies.

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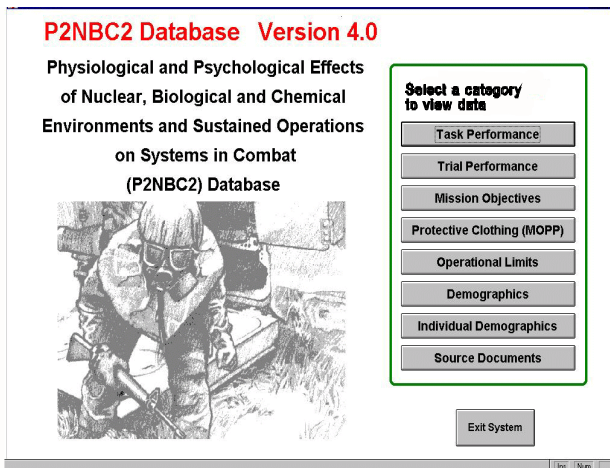
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The CBIAC is Pleased to Announce its Latest Product:
P²NBC² Database on Disk



Title: Physiological and Psychological Effects of the Nuclear, Biological, and Chemical Environment and Sustained Operations on Systems in Combat (P²NBC²) Database

CBIAC Product Number: DB-96-01

Product Category: Database

Media: Disk

Price: \$60.00

Distribution Limitation: U.S. Department of Defense and its Contractors

Classification: Unclassified

Publication Date: January 1997

Availability: CBIAC

Description: The P²NBC² Database was developed to archive data that was collected between 1985 and 1993 from 20 field tests sponsored by the P²NBC² program. Detailed information from 463 tasks performed in MOP P4 is formatted on disk. An IBM compatible personal computer (PC) with Windows™ is required for operation of this database. A user manual explaining system requirements, installation procedures, database design, and a summary of the individual field trials is provided. References for the actual test and evaluation documentation are included.

Ordering Information: Contact Judith M. Shetterly, CBIAC Administrator. Please allow 4-6 weeks for delivery.

CBIAC
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